ELSEVIER

Comput. Methods Appl. Mech. Engrg. 138 (1996) 341

Computer methods in applied mechanics and engineering

Author Index of Volume 138

Alfano, G. and Marotti de Sciarra, F. Mixed finite element formulations and related limitation principles: a general treatment 105–130

Argyris, J. and Kačianauskas, R. Semi-analytical finite elements in the higher-order theory of beams 19– 72

Argyris, J. and Tenek, L. Combined steady-state nonlinear heat transfer/thermal postbuckling computations in unstiffened and stiffened laminated composite plates and shells 131–185

Herrmann, H.J. see Kun, F. 3– 18

Kačianauskas, R. see Argyris, J. 19– 72

Kun, F. and Herrmann, H.J. A study of fragmentation processes using a discrete element method 3– 18

Litvin, F.L. see Seol, I.H. 73–103

Litvin, F.L. and Seol, I.H. Computerized determination of gear tooth surface as envelope to two parameter family of surfaces 213–225

Marotti de Sciarra, F. see Alfano, G. 105–130

Noor, A.K. see Wasfy, T.M. 187–211

Oden, J.T. see Zohdi, T.I. 273–298

Ovtchinnikov, E.E. and Xanthis, L.S. A new Korn's type inequality for thin domains and its application to iterative methods 299–315

Repin, S.I. and Xanthis, L.S. A posteriori error estimation for elasto-plastic problems based on duality theory 317–339

Rodin, G.J. see Zohdi, T.I. 273–298

Seol, I.H. see Litvin, F.L. 213–225

Seol, I.H. and Litvin, F.L. Computerized design, generation and simulation of meshing and contact of worm-gear drives with improved geometry 73–103

Tenek, L. see Argyris, J. 131–185

Wasfy, T.M. and Noor, A.K. Modeling and sensitivity analysis of multibody systems using new solid, shell and beam elements 187–211

Wille, S.Ø. The Prolonged Adaptive Multigrid method for finite element Navier–Stokes equations 227–271

Xanthis, L.S. see Ovtchinnikov, E.E. 299–315

Xanthis, L.S. see Repin, S.I. 317–339

Zohdi, T.I., Oden, J.T. and Rodin, G.J. Hierarchical modeling of heterogeneous bodies 273–298

ELSEVIER

Comput. Methods Appl. Mech. Engrg. 138 (1996) 343–345

Computer methods in applied mechanics and engineering

Subject Index of Volume 138

Calculus of variations

A posteriori error estimation for elasto-plastic problems based on duality theory, S.I. Repin and L.S. Xanthis 317–339

Elasticity

Semi-analytical finite elements in the higher-order theory of beams, J. Argyris and R. Kačianauskas 19– 72

Mixed finite element formulations and related limitation principles: a general treatment, G. Alfano and F. Marotti de Sciarra 105–130

Hierarchical modeling of heterogeneous bodies, T.I. Zohdi, J.T. Oden and G.J. Rodin 273–298

A new Korn's type inequality for thin domains and its application to iterative methods, E.E. Ovtchinnikov and L.S. Xanthis 299–315

Electromagnetic fields

Semi-analytical finite elements in the higher-order theory of beams, J. Argyris and R. Kačianauskas 19– 72

Finite element and matrix methods

A study of fragmentation processes using a discrete element method, F. Kun and H.J. Herrmann 3– 18

Semi-analytical finite elements in the higher-order theory of beams, J. Argyris and R. Kačianauskas 19– 72

Mixed finite element formulations and related limitation principles: a general treatment, G. Alfano and F. Marotti de Sciarra 105–130

Combined steady-state nonlinear heat transfer/thermal postbuckling computations in unstiffened and stiffened laminated composite plates and shells, J. Argyris and L. Tenek 131–185

Modeling and sensitivity analysis of multibody systems using new solid, shell and beam elements, T.M. Wasfy and A.K. Noor 187–211

The Prolonged Adaptive Multigrid method for finite element Navier–Stokes equations, S.Ø. Wille 227–271

Fracture mechanics

A study of fragmentation processes using a discrete element method, F. Kun and H.J. Herrmann 3– 18

Hierarchical modeling of heterogeneous bodies, T.I. Zohdi, J.T. Oden and G.J. Rodin 273–298

Kinematics

Computerized design, generation and simulation of meshing and contact of worm-gear drives with improved geometry, I.H. Seol and F.L. Litvin 73–103

Computerized determination of gear tooth surface as envelope to two parameter family of surfaces, F.L. Litvin and I.H. Seol 213–225

Material physics
A study of fragmentation processes using a discrete element method, F. Kun and H.J. Herrmann 3– 18

Matrix calculus
Semi-analytical finite elements in the higher-order theory of beams, J. Argyris and R. Kačianauskas 19– 72

Nonlinear dynamics of systems
A study of fragmentation processes using a discrete element method, F. Kun and H.J. Herrmann 3– 18
Modeling and sensitivity analysis of multibody systems using new solid, shell and beam elements, T.M. Wasfy and A.K. Noor 187–211

Nonlinear mechanics
A study of fragmentation processes using a discrete element method, F. Kun and H.J. Herrmann 3– 18
Combined steady-state nonlinear heat transfer/thermal postbuckling computations in unstiffened and stiffened laminated composite plates and shells, J. Argyris and L. Tenek 131–185
Modeling and sensitivity analysis of multibody systems using new solid, shell and beam elements, T.M. Wasfy and A.K. Noor 187–211
A new Korn's type inequality for thin domains and its application to iterative methods, E.E. Ovtchinnikov and L.S. Xanthis 299–315
A posteriori error estimation for elasto-plastic problems based on duality theory, S.I. Repin and L.S. Xanthis 317–339

Numerical solution procedures
A study of fragmentation processes using a discrete element method, F. Kun and H.J. Herrmann 3– 18
The Prolonged Adaptive Multigrid method for finite element Navier–Stokes equations, S.Ø. Wille 227–271
Hierarchical modeling of heterogeneous bodies, T.I. Zohdi, J.T. Oden and G.J. Rodin 273–298
A new Korn's type inequality for thin domains and its application to iterative methods, E.E. Ovtchinnikov and L.S. Xanthis 299–315
A posteriori error estimation for elasto-plastic problems based on duality theory, S.I. Repin and L.S. Xanthis 317–339

Plasticity
A posteriori error estimation for elasto-plastic problems based on duality theory, S.I. Repin and L.S. Xanthis 317–339

Shells and plates
Semi-analytical finite elements in the higher-order theory of beams, J. Argyris and R. Kačianauskas 19– 72
Modeling and sensitivity analysis of multibody systems using new solid, shell and beam elements, T.M. Wasfy and A.K. Noor 187–211
A new Korn's type inequality for thin domains and its application to iterative methods, E.E. Ovtchinnikov and L.S. Xanthis 299–315

Solutions of ordinary and partial differential equations
A new Korn's type inequality for thin domains and its application to iterative methods, E.E. Ovtchinnikov and L.S. Xanthis 299–315

Structural mechanics
Semi-analytical finite elements in the higher-order theory of beams, J. Argyris and R. Kačianauskas 19– 72
Mixed finite element formulations and related limitation principles: a general treatment, G. Alfano and F. Marotti de Sciarra 105–130
Combined steady-state nonlinear heat transfer/thermal postbuckling computations in unstiffened and stiffened laminated composite plates and shells, J. Argyris and L. Tenek 131–185
The Prolonged Adaptive Multigrid method for finite element Navier–Stokes equations, S.Ø. Wille 227–271

Systems of linear and nonlinear simultaneous equations
Modeling and sensitivity analysis of multibody systems using new solid, shell and beam elements, T.M. Wasfy and A.K. Noor 187–211
A new Korn's type inequality for thin domains and its application to iterative methods, E.E. Ovtchinnikov and L.S. Xanthis 299–315
A posteriori error estimation for elasto-plastic problems based on duality theory, S.I. Repin and L.S. Xanthis 317–339

Thermal effects and thermodynamics
Combined steady-state nonlinear heat transfer/thermal postbuckling computations in unstiffened and stiffened laminated composite plates and shells, J. Argyris and L. Tenek 131–185